

1 ABSTRACT OF THE DISCLOSURE UNDER 37 C.F.R.1.72(b)

2 An edge detector with sub-micron accuracy. The edge detector
3 comprises two single mode optical fibers with an optical path between them.
4 One fiber is coupled to a laser light source, and creates a light beam. The
5 other fiber is coupled to an optical power detector. The optical power
6 reaching the optical power detector is determined by how much of the light
7 beam is obscured by an object. Thus the position of the edge of the object
8 may be determined from the optical power measured by the detector. The
9 edge of an object may be positioned automatically according to the optical
10 power measured by the detector.

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